



AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An optical measurement instrument for measuring a sample ~~samples~~, comprising:

a first illumination source for excitation of ~~[[a]]~~ the sample in a first measurement mode;

a detector for measuring emission from ~~[[a]]~~ the sample~~[[,]]~~;

a second illumination source for excitation of the sample in a second measurement mode;

a selectable ~~first~~ optical module adapted to guide an ~~for guiding the~~ excitation light beam to the sample~~[[,]]~~; and

directing means for directing a first excitation light beam from said first illumination source and a second excitation light beam from the second illumination source to said selectable optical module, said directing means being adapted to direct the first excitation light beam in a different angle to said selectable optical module than the second excitation light beam ~~characterized in that it comprises a second illumination source for excitation of a sample in a second measurement mode and a selectable second optical module for guiding the excitation beam to the sample, wherein the excitation light beams from the first~~

~~and second illumination sources are directed to the first and second optical modules in different angles.~~

2. (currently amended) ~~[[An]]~~ The instrument according to claim 1, ~~characterized in that wherein~~ the first measurement mode is for measuring photoluminescence.

3. (currently amended) ~~[[An]]~~ The instrument according to claim 1, ~~characterized in that wherein~~ the second measurement mode is for measuring Amplified Luminescent Proximity Homogeneous Assay.

4. (currently amended) ~~[[An]]~~ The instrument according to claim 1, ~~characterized in that said first and second optical modules comprise a~~ wherein said selectable optical module is selectable between a first optical module and a second optical module, said first optical module comprising a first mirror for reflecting the first excitation light beam to the sample and said second optical module comprises a second mirror for reflecting the second excitation light beam to the sample, wherein the first mirror is in a different angle in the first optical module than the second mirror in the ~~mirrors of the first and second optical module modules are in different angles.~~

5. (currently amended) An optical measurement instrument for measuring a sample ~~samples~~, comprising:

a first illumination source for excitation of ~~[[a]]~~ the sample in a first measurement mode;

a detector for measuring emission from ~~[[a]]~~ the
sample~~[[,]]~~;

a second illumination source for excitation of the
sample in a second measurement mode; and

a selectable ~~first~~ optical module for guiding ~~[[the]]~~
an excitation beam to the sample, said selectable optical module
being selectable between a first optical module and a second
optical module ~~characterized in that it comprises a second~~
~~illumination source for excitation of a sample in a second~~
~~measurement mode and a selectable second optical module for~~
~~guiding the excitation beam to the sample,~~ wherein the second
optical module and/or the first optical module comprises means
for adjusting ~~[[the]]~~ a focus ~~for a shorter distance~~ between the
second optical module and the sample for a shorter distance than
a focus between the first optical module and the sample.

6. (currently amended) ~~[[An]]~~ The instrument according
to claim 5, ~~characterized in that it~~ wherein said means for
adjusting is an additional lens towards the sample in the second
optical module.

7. (currently amended) An instrument according to claim
5, ~~characterized in that the instrument comprises~~ further
comprising a measurement head ~~including~~ that includes said
selectable optical module, an assay including said sample, and a
thermo plate with a regulated temperature, wherein in said second

measurement mode the thermo plate is placed closely between the measurement head and the sample assay.

8. (currently amended) [[An]] The instrument according to claim 5, ~~characterized in that~~ wherein the first measurement mode is for measuring photoluminescence.

9. (currently amended) [[An]] The instrument according to claim 5, ~~characterized in that~~ wherein the second measurement mode is for measuring Amplified Luminescent Proximity Homogeneous Assay.